	Application No.	Applicant(s)
	10/780,103	DELUCA ET AL.
Notice of Allowability	Examiner	Art Unit
	Sabiha Qazi	1616
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this apport or other appropriate communication GHTS. This application is subject to	plication. If not included will be mailed in due course. THIS
1. This communication is responsive to <u>12/20/2005</u> .		
2. A The allowed claim(s) is/are 49, 54-59 and 64-69 and 74-79	, 84-88 (re-numbered as 1-24).	
 3. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" on oted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give 5. CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the composition of the deposent attached Examiner's comment regarding REQUIREMENT in the composition of the deposent sheet (s) should be labeled as such in the composition of the deposent sheet (s) should be labeled as such in the composition of the deposent sheet (s) should be labeled as such in the composition of the deposent sheet (s) should be labeled as such in the composition of the deposent sheet (s) should be labeled as such in the composition of the deposent sheet (s) should be labeled as such in the composition of the deposent sheet (s) should be labeled as such in the composition of the	been received. been received in Application No cuments have been received in this in of this communication to file a reply ENT of this application. Itted. Note the attached EXAMINER' is reason(s) why the oath or declarate t be submitted. on's Patent Drawing Review (PTO- a Amendment / Comment or in the Comment or in the Comment of the drawing he header according to 37 CFR 1.121(comment of BIOLOGICAL MATERIAL in	national stage application from the complying with the requirements 'S AMENDMENT or NOTICE OF tion is deficient. 948) attached Office action of the back) of d). nust be submitted. Note the
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Summary Paper No./Mail Dat 8), 7. ☐ Examiner's Amendn	e

REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance:

2. Claims 49, 54-59 and 64-69 and 74-79, 84-88 (re-numbered as 1-24) is allowed. The closest prior art is DeLuca et al., US 5,843,928. The reference does not teach nor suggest the method of use of the compounds as presently claimed.

The claims 49 and 54-58 are drawn to a method of treating a cancerous disease selected from a group consisting of leukemia, colon cancer, breast cancer, and prostate cancer comprising administering to a patient with said disease an effective amount of 20(S)-1alpha, 25-dihydroxy-z-methylene-26,27-dihomo-19-nor vitamin D3 and its analogues one of them having the following structure (claim 49).

Instant claims differ from the copending application in having 1 methyl group more at 26,27 position. The compound of Application '990 is a homologue of the presently claimed invention.

The comparative data and unexpected results presented in Remarks filed on 12/20/2005, 7/21/2005 and the exhibits clearly show and explains the differences between 2-methylene-19-nor-20(S)-1aplha,25-dihydroxy vitamin D3 (2MD) and presently claimed method of using 26, 27 dihomo compound. The ED50 for 2MD is 1.5×10^{-10} while ED50 of 26, 27 dihomo compound is 2.6×10^{-11} which is approximately ten times more effective than 2MD at cellular differentiation, and would be therefore unexpectedly better compound for the treatment.

These results were unexpected and would not have been obvious by routine experimentation. Applicants have clearly demonstrated that the activities of these two homologues were unexpected. The presently claimed method of 26, 27 dihomo showed

significantly greater intestinal Ca transport as well as other difference therefore, invention of claims 12-22 of copending Application No. 10/669,990 would not have been obvious to one skilled in the art, as these were not expected by the routine experimentation.

Examiner thanks Attorney Dr. Thomas M. Wozny for his extended cooperation during the prosecution of this application.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sabiha Qazi whose telephone number is (571) 272-0622. The examiner can normally be reached on any business day.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Padmanabhan, Sreeni (acting) can be reached on 571-272-0629. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

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January 23, 2006

SABIHA QAZI, PH.D PRIMARY EXAMINER